

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings of the claims in this application.

1. (Currently amended) A system ~~System~~ for controlling a light source within an area, the system comprising:

location means conceived to detect a position of at least one person within an area;

activity means conceived to detect a kind of activity performed by the at least one person within the area; and

lighting control means conceived to control the light source within the area in response to the detected at least one person and the kind of activity performed by the at least one person within the area.

2. (Currently amended) The system ~~System~~ according to claim 1, ~~the system~~ further comprising intensity means conceived to detect an intensity with which the kind of activity is performed by the at least one person and the lighting control means is conceived to control the light source within the area in response to the detected intensity.

3. (Currently amended) The system ~~System~~ according to claim 1, ~~the system~~ further comprising dating means conceived to determine a date and a time and the lighting control means is conceived to control the light source within the area in response to the determined date and time.

4. (Currently amended) The system ~~System~~ according to claim 1, ~~the system~~ further comprising noise means conceived to detect noise within the area and the lighting control means is conceived to control the light source within the area in response to the detected noise.

5. (Currently amended) The system ~~System~~ according to claim 1, ~~the system further~~ comprising motion means ~~[[is]]~~ conceived to detect motion of the person within the area and the lighting control means is conceived to control the light source within the area in response to the detected motion.

6. (Currently amended) The system ~~System~~ according to claim 1, ~~the system further~~ comprising preference means conceived to determine a preference of a person and the lighting control means is conceived to control the light source within the area in response to the preference of the at least one person.

7. (Currently amended) A method ~~Method~~ of controlling a light source within an area, the method comprising:
detecting a position of at least one person within an area;
detecting a kind of activity performed by the at least one person within the area;
and
controlling the light source within the area in response to the detected at least one person and the kind of activity performed by the at least one person within the area.

8. (Currently amended) The method ~~Method~~ according to claim 7, the method comprising detecting an intensity with which the kind of activity is performed by the at least one person and the step of controlling the light source comprises controlling the light source within the area in response to the detected intensity.

9. (Currently amended) A lighting ~~Lighting~~ arrangement comprising the system according to claim 1.

10. (New) The system of claim 1, wherein the activity means is conceived to detect at least one kind of activity from the following kinds of activities:
a person reading a book; and
a person watching a television program.

11. (New) The system of claim 1, wherein the lighting control means is conceived to control multiple light sources within the area in response to the detected at least one person and the kind of activity performed by the at least one person within the area.
12. (New) The system of claim 1, wherein the location means is configured to detect the position of the at least one person based upon an analysis of video images of the area.
13. (New) The system of claim 1, wherein the activity means is configured to detect the kind of activity performed by the at least one person based upon an analysis of video images of the area.
14. (New) The system of claim 1, wherein the location means is configured to detect a position of at least a second person in the area, and the lighting control means is configured to control the light source within the area in response to the positions of the at least one person and the at least second person.
15. (New) The method of claim 7, further comprising:
determining a date and a time; and
controlling the light source within the area in response to the determined date and time.
16. (New) The method of claim 7, further comprising:
detecting an audio signal within the area; and
controlling the light source within the area in response to the detected audio signal.
17. (New) The method of claim 16, wherein the audio signal is a human voice.

18. (New) The method of claim 7, further comprising:
analyzing received video images of the at least one person; and
detecting the kind of activity performed by the at least one person within the area
based at least in part upon the analysis.
19. (New) The method of claim 7, further comprising:
detecting a position of at least a second person within the area; and
controlling the light source within the area in response to the position of the at
least second person.
20. (New) The lighting arrangement of claim 9, further comprising intensity means
conceived to detect an intensity with which the kind of activity is performed by the at
least one person and the lighting control means is conceived to control the light source
within the area in response to the detected intensity.